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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,072	09/19/2006	Kouji YOSHIKAWA	Q96695	3799
23373 SUGHRUE MI	7590 11/19/2007 ION, PLLC		EXAM	INER
2100 PENNSYLVANIA AVENUE, N.W.			LAO, MARIALOUISA	
SUITE 800 WASHINGTO	N DC 20037		ART UNIT PAPER NUMBER 1621	
WISHINGTO	11, DC 20037			
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			11/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
Office Andrew Occurred	10/599,072	YOSHIKAWA, KOUJI		
Office Action Summary	Examiner	Art Unit		
	M. Louisa Lao	1621		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. sely filed the mailing date of this coon (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on 10 Section 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allower closed in accordance with the practice under Expression 2.	action is non-final. nce except for formal matters, pro		e merits is	
Disposition of Claims		•		
4)	r election requirement.	Examiner.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	• •	
Priority under 35 U.S.C. § 119	•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/19/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	·. ·	

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group I (claims 1-4) in the reply filed on 9/10/07 is acknowledged.
- 2. Claims 5-14 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 9/10/07.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 6. Claims 1,3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elliot et al. JCS Perkin Trans. I, 1974, pp2470-2474 (in IDS) in view of Hoffman et al. J.Org.Chem. Vol. 27, July 1962, pp. 2687-2689.
- 7. The instant claims are drawn to a method of making a (1-alkenyl)cyclopropane carboxylic ester represented by the formula (2), with substituents therein recited, comprising the decarbonylation of a (2-formyl-1-alkenyl)cyclopropane compound represented by formula (1) in the presence of a palladium catalyst.
- 8. Elliot et al. teach in p.2472 compounds of structure (1) and of structure (4); where structure (4) is a (2-formyl-1-alkenyl)cyclopropane.
- 9. The difference between the instant claims and Elliot et al. is the decarbonylation step. Hoffman et al. is relied upon to teach that at the time of Applicants' invention, decarbonylation in the presence of palladium catalyst was a prevalent practice (columns 1 bottom to column 2 top of p2687).
- 10. At the time of Applicants' invention, one of ordinary skill in the art looking for a method to make a (1-alkenyl)cyclopropane carboxylic ester represented by the instant formula (2), similarly represented by Elliot et al.'s structure (1) from (2-formyl-1-alkenyl)cyclopropane, would have found it *prima facie* obvious to use the palladium catalyzed decarbonylation taught by Hoffman et al..

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An artisan of ordinary skill in the art would have been motivated to use the palladium catalyzed decarbonylation taught by Hoffman et al. in a method to make a (1-alkenyl)cyclopropane carboxylic ester represented by Elliot et al.'s structure (1) from (2-formyl-1-alkenyl)cyclopropane, since the compounds are similarly represented by the instant formula (2) and the artisan would have reached a reasonable expectation of making the desired product.

The Supreme Court in KSR noted that if the actual application of the technique would have been beyond the skill of one of ordinary skill in the art, then the resulting invention would not have been obvious because one of ordinary skill could not have been expected to achieve it.

Allowable Subject Matter

- 12. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 13. The following is a statement of reasons for the indication of allowable subject matter: The prior art, made of record, is replete with methods of making (1-alkenyl)-formyl-cyclopropane carboxylic esters. However, the prior art neither teaches nor discloses the synthetic route of the instant process.

Correspondence .

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MLouisa Lao whose telephone number is 571-272-9930. The examiner can normally be reached on Mondays to Thursdays from 8:00am to 8:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/ROSALYND KEYS/ PRIMARY EXAMINER

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`mll11072007

MLouisa Lao

Examiner

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for YVONNE EYLER

SUPERVISORY PATENT EXAMINER

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